
[EXAM DATES](#)[MOCK TESTS](#)[PREDICTORS](#)[TOP COLLEGES AND UNIVERSITIES](#)[GOT A QUESTION? ASK US HERE!](#)

PU LEET 2011 Question Papers with Answers

December 17, 2013 by Anand Meena — 0 Comments

Free Pdf Convert Download

Convert Any File to a PDF - Word, Jpeg, Gif - 100% Free Download!



PU LEET 2011 Question Papers with Answers

PU LEET 2011 Question Papers with Answers is given below.

[HOME](#)[ENTRANCE EXAMS](#)[UNIVERSITY & COLLEGES](#)

ADMISSION

COURSES

RESOURCES

LATEST UPDATES

al and their nth

terms are a, b, c respectively, then

- (A) $a = b = c$ (B) $a \leq b \leq c$ (C) $a + c = b$ (D) $ac - b^2 = 0$

2. The rank of the matrix $A = \begin{bmatrix} \lambda & -1 & 0 \\ 0 & \lambda & -1 \\ -1 & 0 & \lambda \end{bmatrix}$ is 2, then the value of λ is

- (A) any row number (B) 3 (C) 1 (D) 2

3. The values of μ , for which the following system of equations:

$$(\mu - 1)x + (3\mu + 1)y + 2\mu z = 0; (\mu - 1)x + (4\mu - 2)y + (\mu + 3)z = 0 \text{ and}$$

$$2x + (3\mu + 1)y + 3(\mu - 1)z = 0 \text{ is consistent and has a nontrivial solution are}$$

- (A) 0 or 3 (B) 0 or 5 (C) 3 or 2 (D) 0 or 2

4. The value of $\sin 20^\circ \sin 40^\circ \sin 60^\circ \sin 80^\circ$ is equal to

- (A) $-\frac{3}{16}$ (B) $\frac{5}{16}$ (C) $\frac{3}{16}$ (D) $-\frac{5}{16}$

5. The area of the circle centred at $(1, 2)$ and passing through $(4, 6)$ is

- (A) 5π (B) 10π (C) 25π (D) 16π

6. If $f(x) = x^3 + 8x^2 + 15x - 24$, then the value of $f\left(\frac{11}{10}\right)$ by using Taylor's series is

- (A) 3.961 (B) 3.511 (C) 5.961 (D) 4.511

7. The radius of curvature of the curve: $x^3 + y^3 = 3axy$ at the point $\left(\frac{3a}{2}, \frac{3a}{2}\right)$ is

- (A) $\frac{3a}{8\sqrt{2}}$ (B) $\frac{5a}{8\sqrt{2}}$ (C) $\frac{7a}{8\sqrt{2}}$ (D) $\frac{a}{8\sqrt{2}}$

8. If $f(x, y) = 0$, then $\frac{dy}{dx}$ is equal to

(A) $\frac{f_x}{f_y}$ (B) $\frac{f_y}{f_x}$ (C) $-\frac{f_y}{f_x}$ (D) $-\frac{f_x}{f_y}$

9. If $u = x(1-y)$, $v = xy$, then $\frac{\partial(u,v)}{\partial(x,y)}$ is equal to

(A) x (B) x^2 (C) xy (D) $x - xy$

10. Under what conditions, the differential equation:

$$(a \sinh x \cos y + b \cosh x \sin y)dx + (c \sinh x \cos y + d \cosh x \sin y)dy = 0$$
 is exact?

(A) $a = d, b = -c$ (B) $a = b, d = -c$ (C) $a = -d, b = c$ (D) $a = d, b = c$

11. The volume of the solid obtained by rotating the region bounded by the curves

$$y = x - x^2 \text{ and } y = 0 \text{ about the line } x = 2 \text{ is}$$

(A) $\frac{\pi}{2}$ cubic units (B) $\frac{\pi}{4}$ cubic units

(C) $\frac{\pi}{3}$ cubic units (D) π cubic units

12. The value of the double integral $\iint_R e^{x^2} dx dy$, where the region R is given by

$$R: 2y \leq x \leq 2 \text{ and } 0 \leq y \leq 1 \text{ is}$$

(A) $\frac{1}{4}(e^4 - 1)$ (B) $\frac{1}{4}(e^4 + 1)$ (C) $\frac{1}{4}(e^4 - 4)$ (D) $\frac{1}{4}(e^4 + 4)$

13. The torsion of the curve $x = a \cos t$, $y = a \sin t$, $z = bt$ is

(A) $\frac{a}{a^2 + b^2}$ (B) $\frac{a}{a^2 - b^2}$ (C) $\frac{b}{a^2 + b^2}$ (D) $\frac{b}{a^2 - b^2}$

14. The value of the line integral $\int_C [(x^2 + xy)dx + (x^2 + y^2)dy]$ where C is the square

formed by the lines $y = \pm 1$ and $x = \pm 1$ is

(A) 0 (B) 10 (C) 35 (D) $-\frac{2}{3}$

15. If $\vec{F} = ax\hat{i} + by\hat{j} + cz\hat{k}$, a, b, c are constants, then $\iint_S \vec{F} \cdot \hat{n} dS$, S being the

surface of a unit sphere is

- (A) 0 (B) $\frac{4\pi}{3}(a+b+c)^2$ (C) $\frac{4\pi}{3}(a+b+c)$ (D) none of these

16. A block is projected along a rough horizontal road with a speed of 10m/s. The coefficient of kinetic friction is 0.10. The distance travelled by the block before coming to rest will be
- (A) 10 m
(B) 50 m
(C) 5 m
(D) 15 m
17. A particle is moving in a circle of radius 10 cm with uniform speed completing the circle in 4 s. The magnitude of linear acceleration of the particle will be
- (A) 2.5 cm/s^2
(B) $0.5 \pi \text{ cm/s}^2$
(C) $1.5 \pi \text{ cm/s}^2$
(D) $2.5 \pi^2 \text{ cm/s}^2$
18. A source and detector move away from each other, each with a speed 10 m/s with respect to the ground with no wind. Given speed of sound in air = 340 m/s. If the detector detects a frequency 1950 Hz of the sound coming from the source, the original frequency of the source will be
- (A) 2070 Hz
(B) 1930 Hz
(C) 2170 Hz
(D) 1800 Hz
19. A diffraction grating consisting of a large number of parallel slits all of same width 'a' and spaced equal distance 'd' between centres. For the electromagnetic wave of wavelength λ made incident normal to the surface of grating, the position of the n th maxima making angle θ with the grating surface is given by
- (A) $2a \sin \theta = n\lambda$
(B) $d \cos \theta = n\lambda$
(C) $2d \sin \theta = n\lambda$

$$(D) 2d \sin \theta = n(\lambda/2)$$

20. A particle executes a simple harmonic motion of time period T . The time taken by the particle to go directly from its mean position to half the amplitude is
- (A) $T/12$
(B) $T/2$
(C) $T/5$
(D) $T/20$
21. The number of photons emitted per second by a 5 mW laser source emitting characteristic wavelength of 632.8 nm
- (A) 6.3×10^{20}
(B) 1.6×10^{16}
(C) 1.6×10^{22}
(D) 6.6×10^{34}
22. Ultraviolet light of wavelength 280 nm and intensity 1.00 W/m^2 is directed at a lithium (work function = 2.5 eV) surface. The maximum kinetic energy of the photoelectron is
- (A) 1.5 eV
(B) 1.0 eV
(C) 2.0 eV
(D) 2.5 eV
23. A nucleus has radius $5.0 \times 10^{-15} \text{ m}$. The lower limit on the energy an electron ($m = 9.1 \times 10^{-31} \text{ kg}$) must have to be part of the nucleus is
- (A) ~20 MeV
(B) ~1 GeV
(C) ~1 MeV
(D) ~10 MeV
24. In the helium-neon laser, which of the following is not true?

- (A) the laser transition occurs in neon atom.
- (B) the purpose of the helium atoms is to help achieve a population inversion in the neon atoms
- (C) the purpose of the neon atoms is to help achieve a population inversion in the helium atoms
- (D) the metastable state occur in both the Helium and Neon atoms.
25. The rms, peak and average voltage values for the household power supply (220 V a.c) in India are
- (A) 220 V, $(2\sqrt{2}/\pi) 220$ V, and $220\sqrt{2}$ V, respectively.
- (B) $220/\sqrt{2}$ V, 220 V, and $(\sqrt{2}/\pi) 220$ V, respectively
- (C) 220 V, $220\sqrt{2}$ V, and $(\sqrt{2}/\pi) 220$ V, respectively.
- (D) 220 V, $220\sqrt{2}$, and $(2\sqrt{2}/\pi) 220$ V, respectively.
26. Three capacitors of capacitances $2\mu\text{F}$, $3\mu\text{F}$ and $6\mu\text{F}$ are connected in series with a 12 V battery. All the connecting wires are disconnected, the three positive plates are connected together and three negative plates are connected together. The charges on the capacitors after reconnections will be
- (A) $108/11\mu\text{C}$, $108/11\mu\text{C}$ and $108/11\mu\text{C}$, respectively.
- (B) $24\mu\text{C}$, $36\mu\text{C}$ and $72\mu\text{C}$, respectively.
- (C) $2\mu\text{C}$, $3\mu\text{C}$ and $6\mu\text{C}$, respectively.
- (D) $72/11\mu\text{C}$, $108/11\mu\text{C}$ and $216/11\mu\text{C}$, respectively.
27. The daughter nucleus after beta (β^-) decay of the ${}^{210}_{83}\text{Bi}$ isotope undergoes alpha decay, the final product will be
- (A) ${}^{205}_{82}\text{Pb}$
- (B) ${}^{206}_{82}\text{Pb}$
- (C) ${}^{206}_{83}\text{Bi}$
- (D) ${}^{206}_{81}\text{Tl}$
28. White light is passed through a double slit and interference pattern is observed on a screen 2.5 m away. The separation between the slits is 0.5 mm. The first violet and red fringes are formed at 2.0 mm and 3.5 mm away from the central white fringe. The wavelengths of the violet and the red light are
- (A) 400 nm and 700 nm, respectively.

- (B) 450 nm and 750 nm, , respectively.
- (C) 350 nm and 650 nm, , respectively.
- (D) 700 nm and 400 nm, respectively.
29. The correct order of electromagnetic spectrum with decreasing wavelength is
- (A) X-rays, Ultraviolet rays, Infrared rays, Microwaves, Radiowaves
- (B) Radiowaves, Infrared rays, Microwaves, Ultraviolet rays, X-rays
- (C) Radiowaves, Infrared rays, Ultraviolet rays, Microwaves, X-rays
- (D) Radiowaves, Microwaves, Infrared rays, Ultraviolet rays, X-rays
30. Number of atoms in a face centred cubic cell is
- (A) 8
- (B) 2
- (C) 3
- (D) 4
31. If the applied voltage of a certain transformer is increased by 50% and the frequency is reduced to 50% (assuming that the magnetic circuit remains unsaturated), the maximum core flux density will
- (A) change to three times the original value.
- (B) change to 1.5 times the original value.
- (C) change to 0.5 times as the original value.
- (D) remain the same as the original value.
32. Constant voltage source is
- (A) active and bilateral.
- (B) active and unilateral.
- (C) passive and bilateral.
- (D) passive and unilateral.
33. The diagram for alternating quantities can be drawn if they have ----- wave.
- (A) rectangular.
- (B) sinusoidal.
- (C) triangular
- (D) any of these.
34. In an AC circuit the applied voltage and current drawn are represented as $v = V_m \sin \omega t$ and $i = I_m \sin(\omega t + \phi)$, then the power factor of the circuit is
- (A) $\sin \phi$
- (B) $\cos \phi$ (lagging)
- (C) $\cos \phi$ (leading)
- (D) none of these.

- 35 in series DC motor, the field flux is
- (A) practically constant
 - (B) inversely proportional to armature current
 - (C) directly proportional to armature current
 - (D) directly proportional to square root of armature current.
- 36 when an induction motor runs at rated load and speed, the iron losses are:
- (A) negligible
 - (B) very heavy
 - (C) independent of supply frequency
 - (D) independent of supply voltage.
- 37 Single phase induction motor can be made self starting by
- (A) adding series combination of a capacitor and auxiliary winding in parallel with the main winding.
 - (B) adding an auxiliary winding in parallel with the main winding.
 - (C) adding an auxiliary winding in series with a capacitor and the main winding.
 - (D) none of these.
- 38 Material subjected to rapid reversals of magnetism should have
- (A) high permeability and low hysteresis loss.
 - (B) Large B-H loop area.
 - (C) Large coercivity and high retentivity.
 - (D) Low permeability and large coercivity.
- 39 an ac circuit is given by $i = 10 + 10\sin 314t$. The average and r.m.s. values of current are
- (A) 16.36A, 17.07A
 - (B) 10A, 17.07A
 - (C) 10A, 12.25A
 - (D) 16.36A, 12.2A
- 40 three phase power in electrical system is calculate by the expression.
- (A) $VI\cos\phi$
 - (B) $\sqrt{3}V_{ph}I_{ph}\sin\phi$
 - (C) $\sqrt{3}V_L I_L \cos\phi$
 - (D) $3V_L I_L \cos\phi$
41. Which type of special-purpose diode is formed by a junction between a layer of metal and a

layer of semiconductor?

A) A tunnel diode

B) A zener diode

C) A varactor diode

D) A Schottky diode

42. Physical logic gates take a finite time to respond to changes in their input signals. What name is given to this time?

A) Set-up time.

B) Propagation delay time.

C) Rise time

D) Hold time.

43. In a bipolar transistor biased in the forward active region the base current is $I_B = 50 \mu\text{A}$ and the collector current is $I_C = 2.7 \text{ mA}$. The α is

A) 0.949

B) 54

C) 0.982

D) 0.018

44. A device that converts thermal energy into electrical energy is called a :

A) thermocouple

B) solar cell

C) piezoelectric device

D) generator

45. What is the most widely used method for the automated simplification of Boolean expressions?

A) Karnaugh maps.

B) Quine-McCluskey minimisation.

C) Fast Fourier transforms.

D) Binary reduction.

46. The conditions for oscillation to occur are described by which of the following?

A) Nyquist's theorem.

B) Sampling theorem.

C) Faraday's law.

D) The Barkhausen criterion.

47. What term describes the maximum expected error associated with a measurement or a sensor?

A) Range.

B) Resolution.

C) Accuracy.

D) Precision.

48. What is meant by a single-chip data acquisition system?

A) A single integrated circuit containing an ADC and a multiplexer.

B) A single integrated circuit containing a DAC and a demultiplexer.

C) A single integrated circuit containing an ADC and a DAC

D) A single integrated circuit containing all the elements of a data acquisition system.

- 56 The operator used to access the structure member is
 A) .
 B) *
 C) []
 D) &
- 57 The function fopen() when fails to open a file, then it returns value
 A) NULL
 B) -1
 C) +1
 D) void
- 58 Consider the following code segment
 FILE *fp;
 fp=fopen("notes.txt","r+");
 Which of the following operations can be performed on notes.txt file
 A) reading
 B) writing
 C) appending
 D) all of the above
- 59 The unit that performs the arithmetic and logical operations on the stored numbers is known as
 A) Control unit
 B) ALU
 C) Memory Unit
 D) I/O Unit
- 60 Choose the wrong statement
 A) C++ allows any operator to be overloaded
 B) Some of the existing operators cannot be overloaded
 C) Operator precedence cannot be changed
 D) C++ can be used for the development of procedure oriented as well as object oriented programs.
- 61 Steady flow energy equation is applicable to
 A) Compressor
 B) Turbine
 C) Heat exchanger
 D) All of the above
- 62 Steam table can be used for
 A) Producing steam
 B) Collecting steam
 C) Calculating the volume of steam
 D) Calculating dryness fraction
- 63 Which of the following is a steam power cycle
 A) Otto cycle
 B) Diesel cycle
 C) Rankine cycle
 D) Dual cycle
- 64 A flow net is drawn using
 A) Stream lines
 B) Equi-potential lines
 C) Both (a) and (b)
 D) Flow lines
- 65 Bernoulli's equation is applicable to
 A) Venturimeter
 B) Pitot tube
 C) Orificemeter
 D) All of the above
- 66 Rotameter is used for measuring

- A) Rotational speed
 C) Density of liquid
- B) Flow rate
 D) Piezometric head

67. A gear is mounted on a shaft with a key arrangement. Factor of safety (FOS) of key should be
 A) Smaller than FOS of gear
 C) Both (a) and (b)
- B) Smaller than FOS of shaft
 D) Larger than FOS of shaft and gear
68. Point of contraflexure is a point where
 A) Bending moment is zero
 C) Shear force is maximum
- B) Shear force is zero
 D) Bending moment is maximum
69. Beams are designed mainly for taking up
 A) Direct tensile stresses
 C) Bending stresses
- B) Direct compressive stresses
 D) Torsional shear stresses
70. In the bending formula, $\frac{M}{I} = \frac{f}{y} = \frac{E}{R}$; symbol 'M' represents
 A) Mass
 C) Mean Force
- B) Bending moment
 D) Mean load

Q.No. 71 The water of a river has an important property called

- (A) Turbidity
 (B) Self Purification
 (C) Permeability
 (D) Infiltration Capacity

Q No. 72 Human ear is sensitive to sound waves in the frequency range of

- (A) 20 Hertz to 20000 Hertz
 (B) 30 Hertz to 30000 Hertz
 (C) 40 Hertz to 40000 Hertz
 (D) All the above

Q No. 73 Aeration is done for removal of

- (A) Colour
 (C) Hardness
- (B) Turbidity
 (D) Bad Odour

Q No. 74 In an ecosystem tertiary consumers are

- (A) Animals feeding on trees
 (B) Carnivores like snakes, birds etc
 (C) Carnivores like lion, tiger etc
 (D) Microorganisms like fungi

Q No. 75 To measure quality of ambient air, instrument used is known as

- (A) Barometer
- (B) High Volume Sampler
- (C) Atomic Absorption Spectrophotometer
- (D) Gas Chromatograph

Answer Key

P.U.L.E.E.T. ENTRANCE TEST - 2011

P A N J A B U N I V E R S I T Y, C H A N D I G A R H

Booklet Series...: A

Subject.....: P.U.L.E.E.T. (01)

No. of Questions: 75

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
|----|---|---|---|---|---|---|---|---|---|---|----|
| 1 | D | C | A | C | C | B | A | D | A | C | 10 |
| 11 | A | A | C | A | C | B | D | A | C | A | 20 |
| 21 | B | C | A | C | D | D | B | A | D | D | 30 |
| 31 | A | B | X | C | C | A | A | D | B | C | 40 |
| 41 | D | B | C | A | B | D | C | A | C | D | 50 |
| 51 | C | D | B | A | B | A | A | D | B | A | 60 |
| 61 | D | D | C | C | D | B | C | A | C | B | 70 |
| 71 | B | A | B | X | B | | | | | | 80 |

[Click Here for PU LEET Complete Information](#)

If you have any query regarding this topic please post your queries [HERE](#)

AIIMS Online Practice

15k + Phy, Chem, Bio Questions Free Sign-up & Personal Mentoring



Share

Filed Under: **Panjab University**

STAY UPDATED!

Get all updates and information in your Inbox. Enter your email below:

GO



Comment using...

Facebook social plugin



STAY UPDATED!

Get all updates and information in your
Inbox. Enter your email below:

GO

EXAMS & ADMISSION 2015

[Application Form 2015](#)

[Admit Card 2015](#)

[Result 2015](#)

QUICK LINKS

[Application Forms 2014](#)

Admit Cards 2014

Results 2014

Counselling 2014

Top Colleges and Universities

Got a Question? Ask Us Here!

AdChoices 

[▶ Entrance Exam](#)

[▶ Model Papers](#)

[▶ Answers](#)

AdChoices 

[▶ Test Answers](#)

[▶ Entrance Test](#)

[▶ Exam Questions](#)

ENTRANCE EXAMS

[Common Entrance Exams](#) [Commerce Entrance Exams](#)

[Engineering Entrance Exams](#) [Education Entrance Exams](#)

[Law Entrance Exams](#) [Medical Entrance Exams](#)

[Management](#) [More](#)

ADMISSIONS

[B.Tech through JEE](#)

[B.Arch through NATA](#)

[MBBS/BDS through AIPMT](#)

[M.Tech through GATE](#)

[MBA through CAT](#)

[M.Sc. through JAM](#)

[Diploma and Polytechnic](#)

[More](#)

COURSE WISE EXAMS & ADMISSION

[B.Arch](#)

[B.A](#)

[B.B.A](#)

[B.Com](#)

[MBBS / BDS](#)

[B.Ed](#)

[B.Tech](#)

[LLB](#)

[B.Sc](#)

[M.Arch](#)

[M.A](#)

[MBA](#)

[M.Com](#)

[MCA](#)

[LLM](#)

[More](#)

The materials and information provided on this website are for reference purposes only. [Click Here](#) for complete Disclaimer.